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# User manual

## LEDMOONDOG



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## INTRODUCTION

Welcome to use LED moon flower light. This unit has DMX mode, Sound active mode and Master/Slave mode. It adopts dipswitches to choose functions, which makes it easy to operate. Besides, it is compactable and suitable for all kinds of entertainment places.

**Read the instructions carefully and thoroughly before use and follow operations it referred to you.**

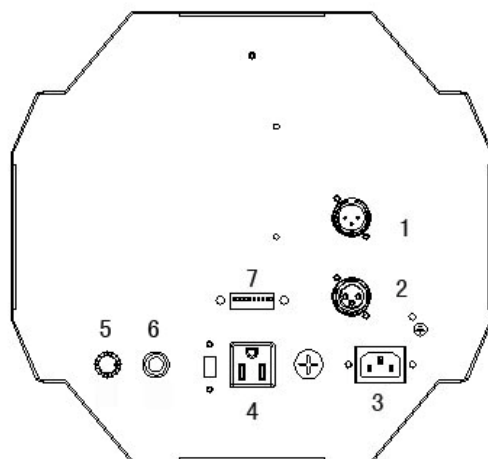
### Main features:

- DMX –512 protocol, 9 DMX channels
- DMX mode, automatic mode, sound active and Master/Slave mode
- Built-in auto programs
- Built-in sound active programs

## SAFETY INFORMATION

- For indoor use only.
- Put it in a dry, ventilated place in case of short cut caused by erosion of moisture and rain.
- Do not install it nearby hot place in case rising temperature of light damage itself.
- Do not barrier vent in order to ventilate well and dissipate in time.
- Connect the light with power source and ground the fixture electrically. Voltage of power source is in accordance with rating voltage.
- If fuse was damaged, change it with the same type fuse.
- No spared accessories is available .If needed, please contact the factory.
- Ambient of the light should not exceed 40<sup>0</sup>
- If any problem, contact professional technician to solve.

## PANEL REVIEW



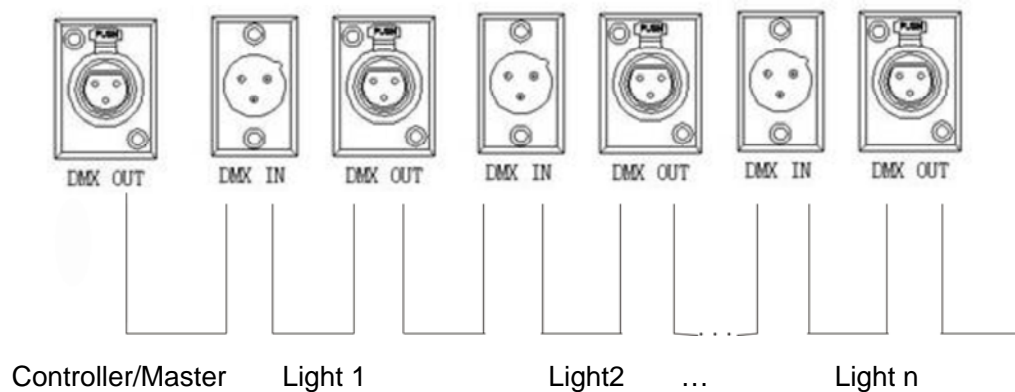
1. DMX out
2. DMX in
3. Power output
4. Power input
5. Sound sensitivity knob
6. Microphone
7. Dipswitches

## INSTALLATION

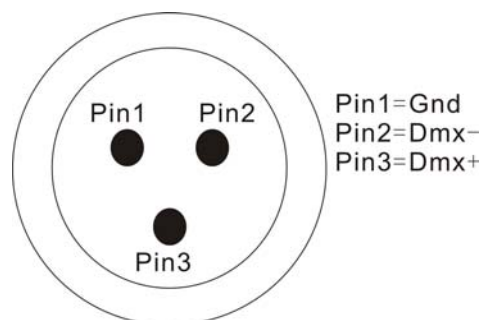
### Overhead mounting

- Verify that the structure can support at least 10 times the weight of all installed fixtures, clamp, cables, auxiliary equipment, and other items.
- If hanging the fixture with a rigging clamp, verify that the clamp is undamaged and is designed for the fixture's weight. Bolt the clamp securely to the mounting bracket on the fixture with a grade 8.8 minimum.
- Working from a stable platform, clamp or fasten the fixture to the structure
- Loose the swivel locks, tilt the fixture to the desired angle, and retighten it.
- Verify the fixture is at least 3.3ft from the surface to be illuminated and at least 1ft from any combustible materials.

### Multi-connectors methods

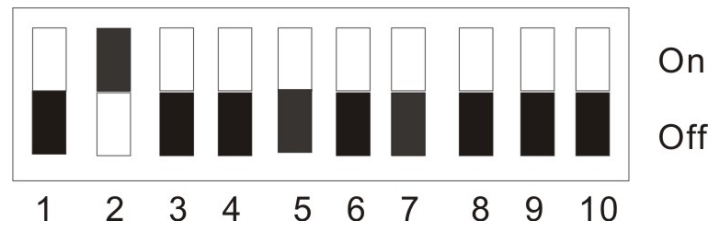


### Input/output pin instruction



## OPERATION

### Switch on/off



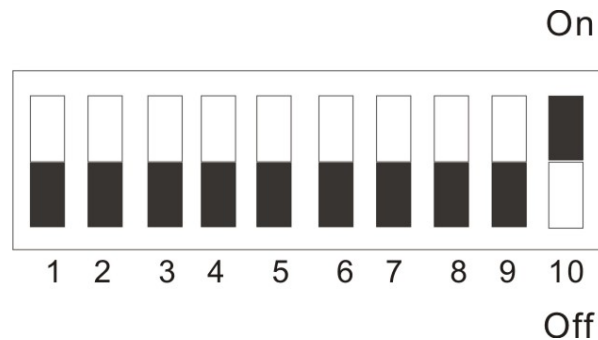
Switch 2 is on, the left is off .

### Brief function chart (X means both On and Off are ok)

Switches		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Function											
D M X		Set DMX address									ON
S L A V E		x	x	x	x	x	x	x	x	x	ON
M A S T E R	SOUND AUTO	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	AUTO	Auto speed				OFF	OFF	OFF	OFF	ON	OFF
	STROBE	x	x	x	x	Strobe speed			OFF	ON	OFF
	ALL ON	x	x	x	x	x	x	x	ON	ON	OFF

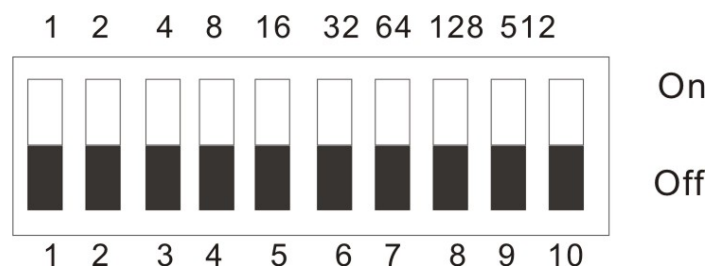
## DMX mode introduction

### Setting DMX mode



**Notes:** X means no matter dipswitch 1~9 is ON or OFF, dipswitches will not function.

### Calculate DMX address



FOR EXAMPLE: if switch #2 and switch #3 is on and the left are off, **DMX address is 6.**  
( $0+0+0+0+0+0+4+2+0 = 6$ )

Switch #9 = 0; Switch #8 = 0; Switch #7 = 0; Switch #6 = 0; Switch #5 = 0; Switch #4 = 0; Switch #3 = 4; Switch #2 = 2; Switch #1 = 0.

**Notes:** 1. DMX address can be set by switches 1~9.

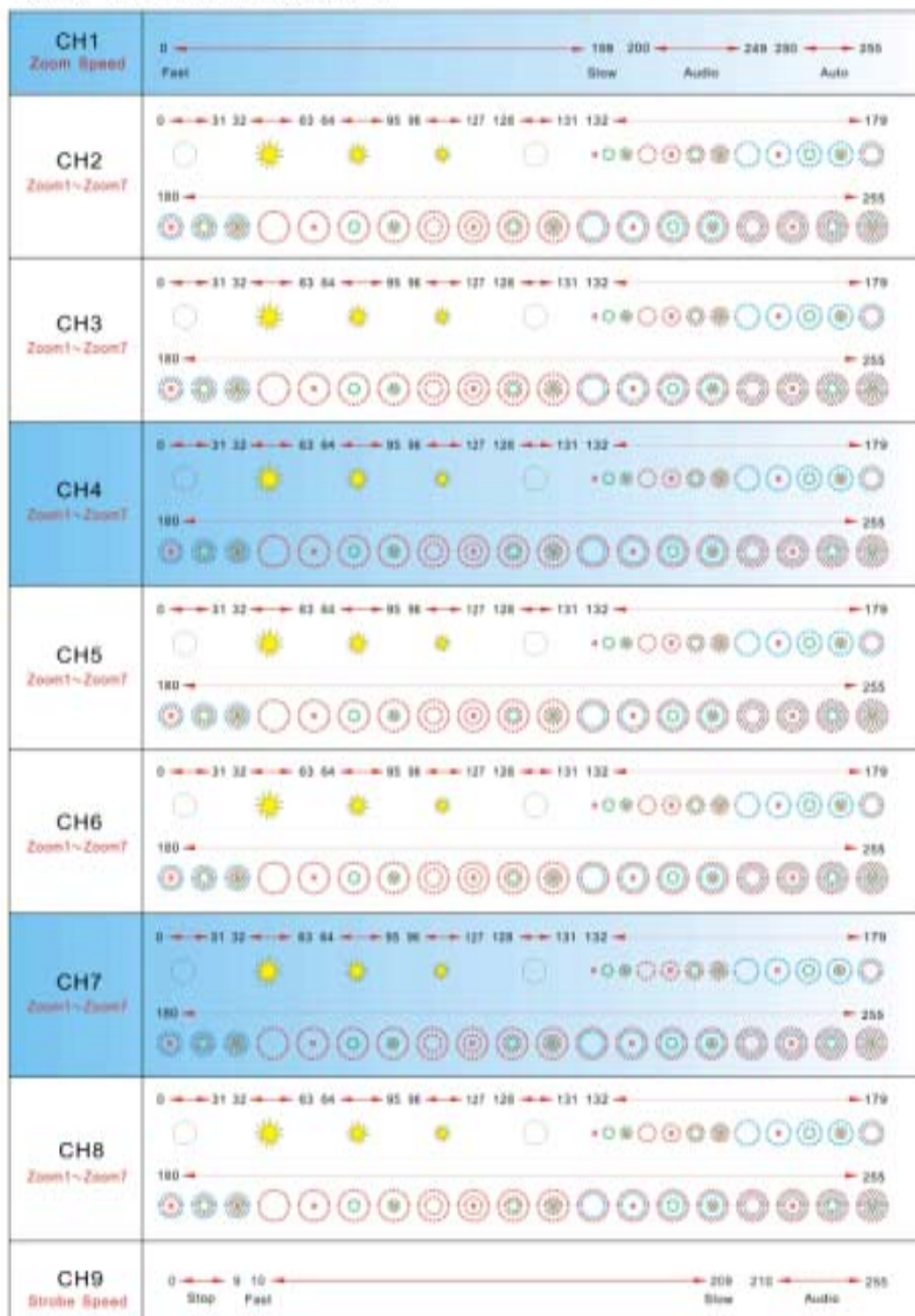
2. when switch 10 is ON, it is DMX mode, otherwise it is MASTER /SLAVE mode.

3. When switch is ON, its value is the correspondent data on the top.

## DMX function

- When DMX signal exists, blue LED will flash.
- Each fixture occupies 9 DMX channels.
- DMX 512 signal can control multi fixtures' different movements at the same time.
- Different DMX address of each fixture will lead to different movements.
- However, DMX address should be set first.

## DMX Channel control



Channel	Data	Function	
1	000 ⇔ 199	Mode	strobe
	200 ⇔ 249		Sound active (all clusters in auto mode)
	250 ⇔ 255		Auto + sound
2	000 ⇔ 031	LED Cluster1	No mode
	032 ⇔ 063		Auto mode 1
	064 ⇔ 095		Auto mode 2
	096 ⇔ 127		Auto mode 3
	128 ⇔ 131		No mode
	132 ⇔ 255		Static color (refer to static color chart)
3	000 ⇔ 031	LED Cluster2	No mode
	032 ⇔ 063		Auto mode 1
	064 ⇔ 095		Auto mode 2
	096 ⇔ 127		Auto mode 3
	128 ⇔ 131		No mode
	132 ⇔ 255		Static color (refer to static color chart)
4	000 ⇔ 031	LED Cluster 3	No mode
	032 ⇔ 063		Auto mode 1
	064 ⇔ 095		Auto mode 2
	096 ⇔ 127		Auto mode 3
	128 ⇔ 131		No mode
	132 ⇔ 255		Static color (refer to static color chart)
5	000 ⇔ 031	LED Cluster4	No mode
	032 ⇔ 063		Auto mode 1
	064 ⇔ 095		Auto mode 2
	096 ⇔ 127		Auto mode 3
	128 ⇔ 131		No mode
	132 ⇔ 255		Static color (refer to static color chart)
6	000 ⇔ 031	LED	No mode

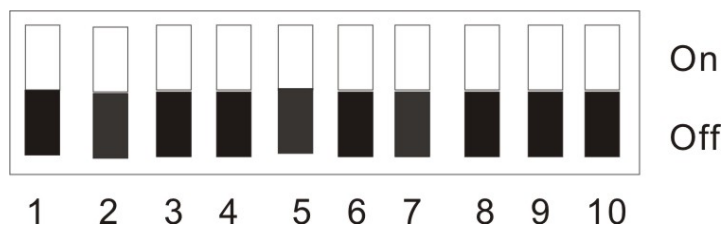


	032 ⇄ 063	Cluster5	Auto mode 1
	064 ⇄ 095		Auto mode 2
	096 ⇄ 127		Auto mode 3
	128 ⇄ 131		No mode
	132 ⇄ 255		Static color (refer to static color chart)
7	000 ⇄ 031	LED Cluster 6	No mode
	032 ⇄ 063		Auto mode 1
	064 ⇄ 095		Auto mode 2
	096 ⇄ 127		Auto mode 3
	128 ⇄ 131		No mode
	132 ⇄ 255		Static color (refer to static color chart)
8	000 ⇄ 031	LED Cluster 7	No mode
	032 ⇄ 063		Auto mode 1
	064 ⇄ 095		Auto mode 2
	096 ⇄ 127		Auto mode 3
	128 ⇄ 131		No mode
	132 ⇄ 255		Static color (refer to static color chart)
9	000 ⇄ 009	Strobe	No
	010 ⇄ 209		fast—>slow( in static colors)
	210 ⇄ 255		Sound active mode (in static colors)

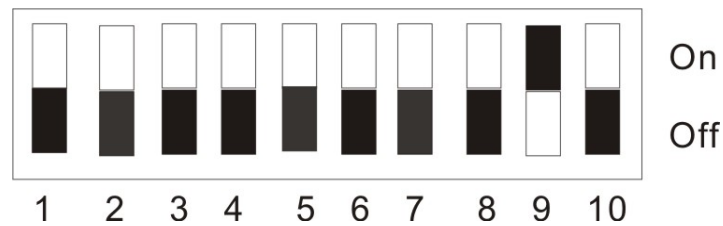
## **MASTER mode introduction**

This light is connected with multi-fixtures and a controller. Set one master connected with the controller and the left fixtures are slaves.

### **Auto+Sound active mode**



## Auto mode



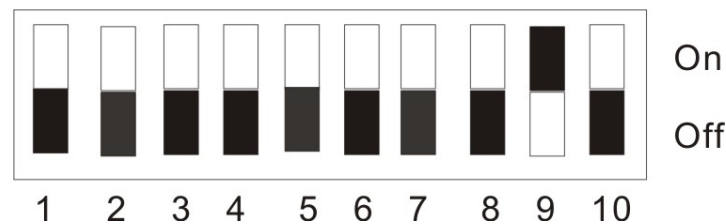
**Notes:** 1. Adjust auto speed by switch#1~4

2. Switch#5,6,7,8,10 is off.

**Auto speed adjustment** (X means both On and Off are ok)

Switch1	Switch2	Switch3	Switch4	Auto speed
OFF	OFF	OFF	OFF	No speed
ON	OFF	OFF	OFF	Slow
×	ON	OFF	OFF	Middle
×	×	ON	OFF	Fast
×	×	×	ON	Very fast

## Strobe mode



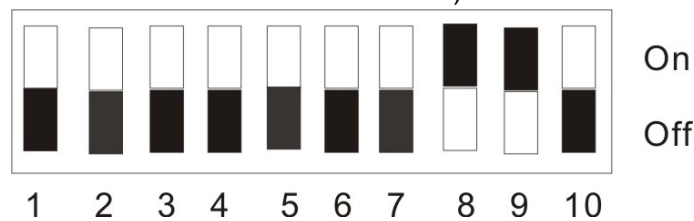
**Notes:** 1. No matter switch#1~4 is On or Off, it won't affect performance.

2. Adjust strobe speed by switch#5~7 (see the following chart).

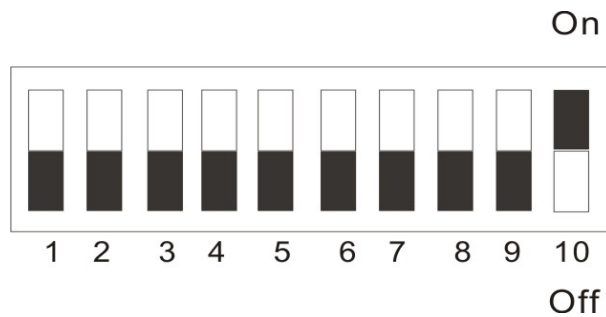
**Strobe speed adjustment** (X means both On and Off are ok)

Switch5	Switch6	Switch7	Strobe speed
OFF	OFF	OFF	No speed
ON	OFF	OFF	Slow
×	ON	OFF	Middle
×	×	ON	Fast

**All on** (switch#1~7 won't function no matter On or Off)



## **SLAVE mode ( Master and Slaves synchronize)**



Notes: 1.Set DMX address by switch1~9 .

2.When switch10 is ON, it is DMX mode. Otherwise it is master mode.

## **MAINTENANCE**

### **Troubleshooting**

Problem	Probable cause(s)	Suggested remedy
Fixtures does not work	No power source	Check if power source is on and power cord is connected well.
	Fuse burnt	Cut off power source and change the same type fuse. If fuse was burnt on end, it may be the problem of line connection
Reset normally, but controller abnormally or no response	False or incomplete data connection	Check the data line. Ensure connection of data line is right and the first lamp's single input is connected with the controller output.
	False address setting	Check DMX address.
	Problem of signal cord of some fixtures	Pull out signal line and butt joint, trying to find malfunctioned lamp one by one. Or contact with professional technicians.
	Signal output does not match with the pin (pins2 and pins3 has a wrong sequence)	Toggle the PHASE button on the controller to reverse the polarity.

## **Cleaning**

Quality of the product is our top priority. However it is indispensable to maintain it periodically to ensure best performance. Following advices are for you reference.

*First, clean fan and vent.*

Clean fan and vent periodically to dissipate heat and ventilate well. Otherwise dust maybe barrier vent and affect performance.

*Second, check line periodically.*

Check connecting line, wiring and ground line to ensure safety of light.

## **TECHNICAL SPECIFICATION**

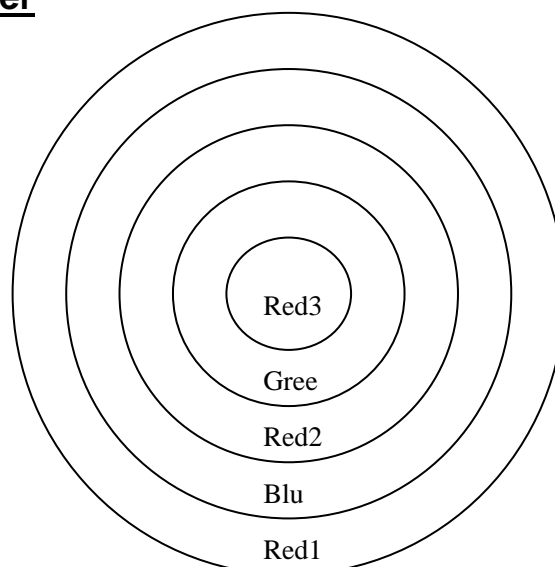
Dimension-----	L12.6 x W14 x 13.8H inch
LED color & number-----	red 280/green63/blue 126
Beam angle-----	45°
Control& programming	
Data input-----	3 pin XLR male socket
Data output-----	3 pin XLR female socket
Data pin configuration-----	pin 1 shield, pin 2(-),pin (+)
Protocols-----	DMX-512 USITT
DMX channels-----	9
Surrounding temperature-----	35°C
Surrounding voltage-----	120V 60HZ
Fuse-----	T2A 125V
Power-----	25W
Weight-----	16.5lb

## Appendix

### Static color chart

Value	Static color	Value	Static color
132 ⇄ 135	Red3	196 ⇄ 199	Red3, Red1
136 ⇄ 139	Green1	200 ⇄ 203	Green1, Red1
140 ⇄ 143	Red3, Green1	204 ⇄ 207	Red3, Green1, Red1
144 ⇄ 147	Red2	208 ⇄ 211	Red2, Red1
148 ⇄ 151	Red3, Red2	212 ⇄ 215	Red3, Red2, Red1
152 ⇄ 155	Red2, Green1	216 ⇄ 219	Red2, Green1, Red1
156 ⇄ 159	Red3, Green1, Red2	220 ⇄ 223	Red3, Green1, Red2, Red1
160 ⇄ 163	Blue1	224 ⇄ 227	Blue1, Red1
164 ⇄ 167	Red3, Blue1	228 ⇄ 231	Red3, Blue1, Red1
168 ⇄ 171	Green1, Blue1	232 ⇄ 235	Green1, Blue1, Red1
172 ⇄ 175	Red3, Green1, Blue1	236 ⇄ 239	Red3, Green1, Blue1, Red1
176 ⇄ 179	Red2, Blue1	240 ⇄ 243	Red2, Blue1, Red1
180 ⇄ 183	Red3, Red2, Blue1	244 ⇄ 247	Red3, Red2, Blue1, Red1
184 ⇄ 187	Green1, Red2, Blue1	248 ⇄ 251	Green1, Red2, Blue1, Red1
188 ⇄ 191	Red3, Green1, Red2, Blue1	252 ⇄ 255	Red3, Green1, Red2, Blue1, Red1
192 ⇄ 195	Red1	No	No

### LED Cluster



## DMX address reference chart

SWITHC SET  0 = OFF  1 = ON					#9	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
					#8	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1
					#7	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
					#6	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
#1	#2	#3	#4	#5																	
0	0	0	0	0			32	64	96	128	160	192	224	256	288	320	352	384	416	448	480
1	0	0	0	0		1	33	65	97	129	161	193	225	257	289	321	353	385	417	449	481
0	1	0	0	0		2	34	66	98	130	162	194	226	258	290	322	354	386	418	450	482
1	1	0	0	0		3	35	67	99	131	163	195	227	259	291	323	355	387	419	451	483
0	0	1	0	0		4	36	68	100	132	164	196	228	260	292	324	356	388	420	452	484
1	0	1	0	0		5	37	69	101	133	165	197	229	261	293	325	357	389	421	453	485
0	1	1	0	0		6	38	70	102	134	166	198	230	262	294	326	358	390	422	454	486
1	1	1	0	0		7	39	71	103	135	167	199	231	263	295	327	359	391	423	455	487
0	0	0	1	0		8	40	72	104	136	168	200	232	264	296	328	360	392	424	456	488
1	0	0	1	0		9	41	73	105	137	169	201	233	265	297	329	361	393	425	457	489
0	1	0	1	0		10	42	74	106	138	170	202	234	266	298	330	362	394	426	458	490
1	1	0	1	0		11	43	75	107	139	171	203	235	267	299	331	363	395	427	459	491
0	0	1	1	0		12	44	76	108	140	172	204	236	268	300	332	364	396	428	460	492
1	0	1	1	0		13	45	77	109	141	173	205	237	269	301	333	365	397	429	461	493
0	1	1	1	0		14	46	78	110	142	174	206	238	270	302	334	366	398	430	462	494
1	1	1	1	0		15	47	79	111	143	175	207	239	271	303	335	367	399	431	463	495
0	0	0	0	1		16	48	80	112	144	176	208	240	272	304	336	368	400	432	464	496
1	0	0	0	1		17	49	81	113	145	177	209	241	273	305	337	369	401	433	465	497
0	1	0	0	1		18	50	82	114	146	178	210	242	274	306	338	370	402	434	466	498
1	1	0	0	1		19	51	83	115	147	179	211	243	275	307	339	371	403	435	467	499
0	0	1	0	1		20	52	84	116	148	180	212	244	276	308	340	372	404	436	468	500
1	0	1	0	1		21	53	85	117	149	181	213	245	277	309	341	373	405	437	469	501
0	1	1	0	1		22	54	86	118	150	182	214	246	278	310	342	374	406	438	470	502
1	1	1	0	1		23	55	87	119	151	183	215	247	279	311	343	375	407	439	471	503
0	0	0	1	1		24	56	88	120	152	184	216	248	280	312	344	376	408	440	472	504
1	0	0	1	1		25	57	89	121	153	185	217	249	281	313	345	377	409	441	473	505
0	1	0	1	1		26	58	90	122	154	186	218	250	282	314	346	378	410	442	474	506
1	1	0	1	1		27	59	91	123	155	187	219	251	283	315	347	379	411	443	475	507
0	0	1	1	1		28	60	92	124	156	188	220	252	284	316	348	380	412	444	476	508
1	0	1	1	1		29	61	93	125	157	189	221	253	285	317	349	381	413	445	477	509
0	1	1	1	1		30	62	94	126	158	190	222	254	286	318	350	382	414	446	478	510
1	1	1	1	1	31	63	95	127	159	191	223	255	287	319	351	383	415	447	479	511	